

What is claimed is:

1. (original) A distance measuring device (10), in particular a handheld laser distance measuring device, with a position sensor (22) for determining the spacial orientation of the distance measuring device, wherein the position sensor (22) is connected with a signal transducer (12, 28, 30, 32), whereby the signal transducer (12, 28, 30, 32) is capable of being triggered by the position sensor (22) to emit a perceptible signal which depends on the spacial orientation.
2. (original) The distance measuring device as recited in Claim 1, wherein the signal transducer is an optical signal transducer (12, 30), an acoustic signal transducer (28) or a tactile signal transducer (32).
3. (original) The distance measuring device as recited in Claim 2, wherein the optical signal transducer (12, 32) is capable of being triggered by the position sensor (22) to emit an optical signal, the intensity, color, brightness, blinking frequency (f) and/or blinking duration of which are a function of the spacial orientation.
4. (currently amended) The distance measuring device as recited in Claim 2 and/or Claim 3, wherein the optical signal transducer is a laser (12) that emits light in the visible wavelength range.
5. (original) The distance measuring device as recited in Claim 4, wherein the optical signal transducer is a laser (12) which serves to measure distance.
6. (currently amended) The distance measuring device as recited in ~~at least one of the Claims 2 through 5~~ Claim 2,

wherein the acoustic signal transducer (28) is capable of being triggered by the position sensor (22) to emit an acoustic signal, the volume, pitch, frequency of recurrence (f) and/or duration of which are a function of the spacial orientation.

7. (currently amended) The distance measuring device as recited in ~~at least one of the Claims 2 through 6~~ Claim 2,

wherein the tactile signal transducer (32) is capable of being triggered by the position sensor (22) to emit a tactile signal, the impact strength and/or frequency of recurrence (f) of which is a function of the spacial orientation.

8. (currently amended) The distance measuring device as recited in ~~at least one of the previous claims~~ Claim 1, wherein the position sensor (22) is a tilt sensor.

9. (currently amended) The distance measuring device as recited in ~~at least one of the previous claims~~ Claim 1, wherein, to trigger the signal transducer (12, 28, 30, 32) as a function of the spacial orientation, a control unit (24, 26, 26', 26'', 26''', 14) is provided which is connected with the position sensor (22) on the input side and with the signal transducer (12, 28, 30, 32) on the output side.

10. (original) The distance measuring device as recited in Claim 9, wherein the control unit (24, 26, 26', 26'', 26''', 14) includes a comparator unit (24) to compare a signal emitted by the position sensor (22) with a specified limiting value and, as a function of the comparison, to generate a control signal (f) for triggering the signal transducer (12, 28, 30, 32).